

AMENDMENTS TO THE SPECIFICATION:

Please delete paragraph [0001] in its entirety.

Please replace paragraph [0005] with the following new paragraph:

[0005] General chemical compositions for groups of oxide materials with simple perovskite structures are $(A_{1-x}M_x)BO_3$, $(A_{1-x}M_x)(B'B'')O_3$ or $A(B_{1-x}M_x)O_3$, (where A can be 1^+ , 2^+ and 3^+ ions; B can be 5^+ , 4^+ , 3^+ ions; B' and B'' can be 2^+ , 3^+ , 4^+ , 5^+ and 6^+ ions, M is a magnetic ion dopant). Specific examples are $(A_{1-x}M_x)TiO_3$, $(A_{1-x}M_x)ZrO_3$, $(A_{1-x}M_x)SnO_3$, $(A_{1-x}B_x)HfO_3$, $La(Mo_{1-x}M_x)O_3$, $Sr(Ti_{1-x}M_x)O_3$ where A=Ca, Sr, Ba, Pb, Cd and M= Fe, Ni, Co, Mn with $0 < x < 0.15$.

Please replace paragraph [0007] with the following new paragraph:

[0007] Figure 2 illustrates plots of magnetization (μ_B/Fe) measured as a function of magnetic field at a temperature of 300K by SQUID magnetometer for a series of $(Ba_{1-x}Fe_x)TiO_3$ with $x = 0.01, 0.02, 0.03, 0.05, 0.07$, and 0.1 .

Please replace paragraph [0008] with the following new paragraph:

[0008] Figure 3 illustrates plots of magnetization (μ_B/mol) measured as a function of magnetic field at a temperature of 300K by SQUID magnetometer for a series of $(Ba_{0.95}M_{0.05})TiO_3$ with M=Fe, Co, and Ni.

Please replace paragraph [0009] with the following new paragraph:

[0009] Figure 4 illustrates plots of magnetization (μ_B/mol) measured as a function of magnetic field at a temperature of 300K by SQUID magnetometer for a series of $(Ca_{0.95}M_{0.05})TiO_3$ with M=Fe, Co, and Ni.

Please replace paragraph [0010] with the following new paragraph:

[0010] Figure 5 illustrates plots of magnetization (μ_B/mol) measured as a function of magnetic field at a temperature of 300K by SQUID magnetometer for a series of $(\text{Ba}_{0.95}\text{Fe}_{0.05})\text{BO}_3$ with B=Ti, Zr, and Hf.

Please replace paragraph [0011] with the following new paragraph:

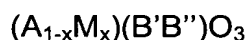
[0011] Figure 6 illustrates plots of magnetization (μ_B/mol) measured as a function of magnetic field at a temperature of 300K by SQUID magnetometer for a series of $(\text{Ca}_{0.95}\text{Fe}_{0.05})\text{BO}_3$ with B=Ti, Zr, and Hf.

Please replace paragraph [0013] with the following new paragraph:

[0013] Figures 8A and 8B depict hysteresis loops of $(\text{Ba}_{0.94}\text{Fe}_{0.05})\text{TiO}_3$ and $(\text{Ca}_{0.94}\text{Fe}_{0.05})\text{TiO}_3$ measured at 5K and 300K by a SQUID magnetometer.

Please replace paragraph [0016] with the following new paragraph:

[0016] The invention includes general chemical compositions of the forms



where A can be 1^+ , 2^+ and 3^+ ions; B can be 5^+ , 4^+ , 3^+ ions; B' and B'' can be 2^+ , 3^+ , 4^+ , 5^+ and 6^+ ions, M is a magnetic ion dopant such as Fe, Co, Ni and Mn.

Please replace Table 1 with the following new Table 1

Table 1

Magnetic Properties of $(\text{Ba}_{0.95}\text{Fe}_{0.05})\text{MO}_3$ and $(\text{Ca}_{0.95}\text{Fe}_{0.05})\text{MO}_3$ (M=Ti, Zr, Hf)

	Hc(300K) (Oe)	Mr(300K) $\times 10^{-4}$ $\mu\text{B}/\text{Mol}$	Hc(5K) (Oe)	Mr(5K) $\times 10^{-4}$ $\mu\text{B}/\text{Mol}$
$(\text{Ba}_{0.95}\text{Fe}_{0.05})\text{TiO}_3$	16	3.84	26	7.55
$(\text{Ca}_{0.95}\text{Fe}_{0.05})\text{TiO}_3$	12	2.7	26	5.96
$(\text{Ba}_{0.95}\text{Fe}_{0.05})\text{ZrO}_3$	25	4.6	51	9.6
$(\text{Ca}_{0.95}\text{Fe}_{0.05})\text{ZrO}_3$	4.5	2.3	103	3.4
$(\text{Ba}_{0.95}\text{Fe}_{0.05})\text{HfO}_3$	20	4.5	51	11
$(\text{Ca}_{0.95}\text{Fe}_{0.05})\text{HfO}_3$	7	2.3	68	16